

CORRECTED VERSION

(19) World Intellectual Property Organization
International Bureau(43) International Publication Date
16 June 2005 (16.06.2005)

PCT

(10) International Publication Number
WO 2005/054050 A3(51) International Patent Classification⁷: **B63H 25/00**

(21) International Application Number:

PCT/US2004/039936

(22) International Filing Date:

1 December 2004 (01.12.2004)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

60/525,888 1 December 2003 (01.12.2003) US

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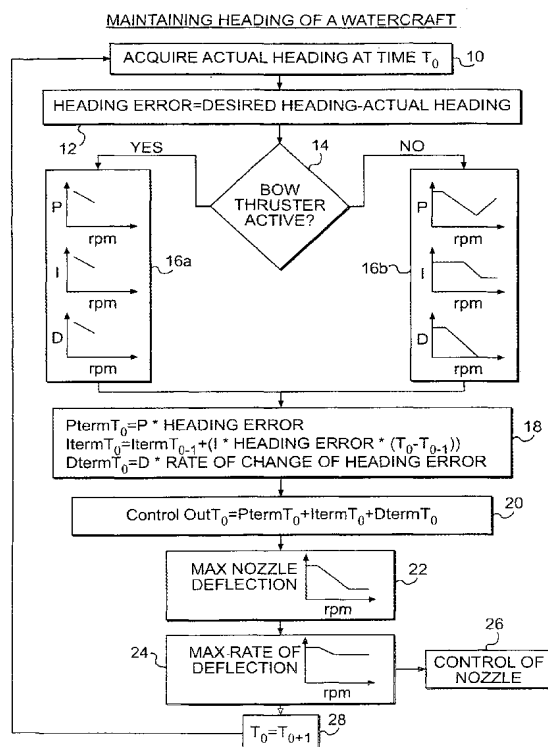
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(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO,

[Continued on next page]

(54) Title: CONTROL OF A WATERJET PROPELLED VESSEL



(57) Abstract: A method for controlling a watercraft includes acquiring a desired heading of the watercraft, acquiring an actual heading of the watercraft at time T_0 , calculating a heading error by comparing the desired heading with the actual heading and determining a rate of change of the heading error. A P gain, I gain and D gain for use in maintaining the heading of the watercraft is determined and used to calculate factors related to heading error, cumulative heading error and rate of change of heading error. These factors are summed to form a control value for deflecting a nozzle of the watercraft to maintain a heading of the watercraft. Further embodiments include methods for calculating and correcting a heading of the watercraft, as well as methods for controlling roll out and sideways motion of the watercraft.

WO 2005/054050 A3



SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

(48) Date of publication of this corrected version:

5 January 2006

Published:

— *with international search report*

(15) Information about Correction:

see PCT Gazette No. 01/2006 of 5 January 2006, Section II

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(88) Date of publication of the international search report:

10 November 2005